

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
)  
Weston, Susan L. et al. )  
)  
Serial No.: 09/228,639 ) Group Art Unit: 1655  
)  
Filed: January 12, 1999 ) Examiner: J. Enewold  
)  
For: SEQUENCES )

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

**PRELIMINARY AMENDMENT**

Applicants are filing this paper to amend the specification and the claims to include the sequence identification numbers identified in the papers filed by Applicants on April 7, 2000.

**IN THE SPECIFICATION**

On page 3, delete lines 9-12 and insert  
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Primer Set A	Allele specific	Tube	DNA sequence (5' to 3')	Seq. ID. No.
W1282X Forward	Y	A	TCTTGGGATT CAATAACTTT GCAACAGTCA	Seq. ID. No. 5
1717-1G>A Forward	Y	A	TACTAAAAGT GACTCTCTAA TTTTCTATTT TTGGTAATTA	Seq. ID. No. 7

G542X Forward	Y	A	AGTTTGCAGA GAAAGACAAT ATAGTTCTCT	Seq. ID. No. 8
N1303K Reverse	Y	A	TGATCACTCC ACTGTTTCATA GGGATCCATC	Seq. ID. No. 10
AEF508 Mutant Reverse	Y	A	GTATCTATAT TCATCATAGG AAACACCATT	Seq. ID. No. 12
3849+ 10kb C>T Reverse	Y	A	ACATTTCCTT TCAGGGTGTC TGACTAA	Seq. ID. No. 14

Primer Set B	Allele specific	Tube	DNA sequence (5' to 3')	Seq. ID. No.
AEF508 Wild type Reverse	Y	B	GTATCTATAT TCATCATAGG AAACACCACA	Seq. ID. No. 16
621+1 G>T reverse	Y	B	TGCCATGGGG CCTGTGCAAG GAAGTATTGA	Seq. ID. No. 18
R117H Reverse	Y	B	AGCCTATGCC TAGATAAATC GCGATAGACT	Seq. ID. No. 19
R334W Forward	Y	B	CCTATGCACT AATCAAAGGA ATCATCCTGT	Seq. ID. No. 21
G551D Reverse	Y	B	GCTAAAGAAA TTCTTGCTCG TTGTT	Seq. ID. No. 23
R553X Reverse	Y	B	GACTGACTGA CTGACTGACT CTGACTGACT TATTCACCTT GCTAAAGAAA TTCTTGCTGA	Seq. ID. No. 24
R1162X Forward	Y	B	TATTTTTATT TCAGATGCCA TCTGTGAGTT	Seq. ID. No. 26

B1  
cont

On page 4, delete lines 19-20 and insert

Primer	Allele specific	Tube	DNA sequence (5' to 3')	Seq. ID. No.
W1282X Reverse	N	A	GAATTCCCAA ACTTTTAGAG ACATC	Seq. ID. No. 6
1717- 1G>A/G542X	N	A	TAATCTCTAC CAAATCTGGA TACTATACC	Seq. ID. No. 9
N1303K Forward	N	A	AATTTGAGAG AACTTGATGG TAAGTACA	Seq. ID. No. 11
AEF508 Mutant Forward	N	A	CCAGACTTCA CTTCTAATGA TGATTATGGG	Seq. ID. No. 13
3849+10kb C>T Forward	N	A	TTGTGGATCA AATTTAGTT GACTTGTCAT C	Seq. ID. No. 15
AEF508 WT Forward	N	B	GACTTCACTT CTAATGATGA TTATGGGAGA	Seq. ID. No. 17
621+1 G>T/R117H Forward	N	B	GTTTCACATA GTGTATGACC CTCTATATAC ACTCATT	Seq. ID. No. 20
R334W Reverse	N	B	TTTGTTTATT GCTCCAAGAG AGTCATACCA	Seq. ID. No. 22
G551D/R553X Forward	N	B	TAAAATTGGA GCAATGTTGT TTTTGACC	Seq. ID. No. 25
R1162X Reverse	N	B	TTTTGCTGTG AGATCTTTGA CAGTCATT	Seq. ID. No. 27

On page 5, delete lines 1-2 and insert  
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B2

Primer Mix A	Allele specific	Tube	DNA sequence (5' to 3')	Seq. ID. No.
W1282X Forward	Y	A	TCTTGGGATT CAATAACTTT GCAACAGTCA	Seq. ID. No. 5
W1282X Reverse	N	A	GAATTCCCAA ACTTTTAGAG ACATC	Seq. ID. No. 6
1717-1G>A Forward	Y	A	TACTAAAAGT GACTCTCTAA TTTTCTATTT TTGGTAATTA	Seq. ID. No. 7
G542X Forward	Y	A	AGTTTGCAGA GAAAGACAAT ATAGTTCTCT	Seq. ID. No. 8
1717- 1G>A/G542X Reverse	N	A	TAATCTCTAC CAAATCTGGA TACTATACC	Seq. ID. No. 9
N1303K Reverse	Y	A	TGATCACTCC ACTGTTCATA GGGATCCATC	Seq. ID. No. 10
N1303K Forward	N	A	AATTTGAGAG AACTTGATGG TAAGTACA	Seq. ID. No. 11
AEF508 Reverse	Y	A	GTATCTATAT TCATCATAGG AAACACCATT	Seq. ID. No. 12
AEF508 Forward	N	A	CCAGACTTCA CTTCTAATGA TGATTATGGG	Seq. ID. No. 13
3849+10kb C>T Reverse	Y	A	ACATTTCCTT TCAGGGTGTC TGACTAA	Seq. ID. No. 14
3849+10kb C>T Forward	N	A	TTGTGGATCA AATTTCAGTT GACTTGTCAT C	Seq. ID. No. 15

Primer Mix B	Allele specific	Tube	DNA sequence (5' to 3')	Seq. ID. No.
AEF508 Wild type Reverse	Y	B	GTATCTATAT TCATCATAGG AAACACCACA	Seq. ID. No. 16
AEF508 Forward	N	B	GACTTCACTT CTAATGATGA TTATGGGAGA	Seq. ID. No. 17
621+1 G>T Reverse	Y	B	TGCCATGGGG CCTGTGCAAG GAAGTATTGA	Seq. ID. No. 18
R117H Reverse	Y	B	AGCCTATGCC TAGATAAATC GCGATAGACT	Seq. ID. No. 19
621+1 G>T/R117H Forward	N	B	GTTTCACATA GTGTATGACC CTCTATATAC ACTCATT	Seq. ID. No. 20
R334W Forward	Y	B	CCTATGCACT AATCAAAGGA ATCATCCTGT	Seq. ID. No. 21
R334W Reverse	N	B	TTTGTTTATT GCTCCAAGAG AGTCATACCA	Seq. ID. No. 22
G551D Reverse	Y	B	GCTAAAGAAA TTCTTGCTCG TTGTT	Seq. ID. No. 23
R553X Reverse	Y	B	GACTGACTGA CTGACTGACT CTGACTGACT TATTCACCTT GCTAAAGAAA TTCTTGCTGA	Seq. ID. No. 24
G551D/R553X Forward	N	B	TAAAATTGGA GCAATGTTG TTTTTGACC	Seq. ID. No. 25
R1162X Forward	Y	B	TATTTTTTATT TCAGATGCGA TCTGTGAGTT	Seq. ID. No. 26
R1162X Reverse	N	B	TTTTGCTGTG AGATCTTTGA CAGTCATT	Seq. ID. No. 27

B2  
cont

On page 5, delete line 13 and insert

B3

Apo B control Forward	N	A& B	GAGCACAGTA CGAAAAACCA CCT	Seq. ID. No. 1
Apo B control Reverse	N	A& B	AAACTTTTAC AGGGATGGAG AACG	Seq. ID. No. 2
ODC control Forward	N	A& B	AGAGGATTAT CTATGCAAAT CCTTGTAACC	Seq. ID. No. 3
ODC control Reverse	N	A& B	TCAACTTCAC TATCAAAAGT CATCATCTAG	Seq. ID. No. 4

On page 20, delete the entire page and insert  
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B4

Primer	Allele specific	Tube	DNA sequence (5' to 3')	Seq. ID. No.
Apo B control Forward	N	A& B	GAGCACAGT ACGAAAAACC ACCT	Seq. ID. No. 1
Apo B control Reverse	N	A& B	AAACTTTTAC AGGGATGGAG AACG	Seq. ID. No. 2
ODC control Forward	N	A& B	AGAGGATTAT CTATGCAAAT CCTTGTAACC	Seq. ID. No. 3
ODC control Reverse	N	A& B	TCAACTTCAC TATCAAAAGT CATCATCTAG	Seq. ID. No. 4
W1282X Forward	Y	A	TCTTGGGATT CAATAACTTT GCAACAGTCA	Seq. ID. No. 5
W1282X Reverse	N	A	GAATTCCCAA ACTTTTAGAG ACATC	Seq. ID. No. 6
1717-1G>A Forward	Y	A	TACTAAAAGT GACTCTCTAA TTTTCTATTT TTGGTAATTA	Seq. ID. No. 7
G542X Forward	Y	A	AGTTTGCAGA GAAAGACAAT ATAGTTCTCT	Seq. ID. No. 8
1717-1G>A/G542X Reverse	N	A	TAATCTCTAC CAAATCTGGA TACTATACC	Seq. ID. No. 9
N1303K Reverse	Y	A	TGATCACTCC ACTGTTCATA GGGATCCATC	Seq. ID. No. 10
N1303K Forward	N	A	AATTTGAGAG AACTTGATGG TAAGTACA	Seq. ID. No. 11
AEF508 Reverse	Y	A	GTATCTATAT TCATCATAGG AAACACCATT	Seq. ID. No. 12
AEF508 Forward	N	A	CCAGACTTCA CTTCTAATGA TGATTATGGG	Seq. ID. No. 13
3849+10kb C>T Reverse	Y	A	ACATTTTCCTT TCAGGGTGTC TGACTAA	Seq. ID. No. 14
3849+10kb C>T Forward	N	A	TTGTGGATCA AATTTAGTT GACTTGTCATC	Seq. ID. No. 15

TACTAAAAGT GACTCTCTAA TTTTCTATTT TTGGTAATTA (Seq. ID. No. 7)  
AGTTTGCAGA GAAAGACAAT ATAGTTCTCT (Seq. ID. No. 8)  
TGATCACTCC ACTGTTTATA GGGATCCATC (Seq. ID. No. 10)  
GTATCTATAT TCATCATAGG AAACACCATT (Seq. ID. No. 12)  
ACATTTTCCTT TCAGGGTGTC TGACTAA (Seq. ID. No. 14)

12. A set of primers as claimed in claim 5 and comprising the following diagnostic primer sequences:

GTATCTATAT TCATCATAGG AAACACCACA (Seq. ID. No. 16)  
TGCCATGGGG CCTGTGCAAG GAAGTATTGA (Seq. ID. No. 18)  
AGCCTATGCC TAGATAAATC GCGATAGACT (Seq. ID. No. 19)  
CCTATGCACT AATCAAAGGA ATCATCCTGT (Seq. ID. No. 21)  
GCTAAAGAAA TTCTTGCTCG TTGTT (Seq. ID. No. 23)  
GACTGACTGA CTGACTGACT CTGACTGACT TATTCA (Seq. ID. No. 24)  
CCTTGCTAAA GAAATTCTTG CTGA (Seq. ID. No. 24)  
TATTTTATT TCAGATGCGA TCTGTGAGTT (Seq. ID. No. 26)

13. A set of primers comprising the following diagnostic primer and amplification primer sequences:

TCTTGGGATT CAATAACTTT GCAACAGTCA (Seq. ID. No. 5)  
GAATTCCTAA ACTTTTAGAG ACATC (Seq. ID. No. 6)  
TACTAAAAGT GACTCTCTAA TTTTCTATTT TTGGTAATTA (Seq. No. 7)  
AGTTTGCAGA GAAAGACAAT ATAGTTCTCT (Seq. ID. No. 8)  
TAATCTCTAC CAAATCTGGA TACTATACC (Seq. ID. No. 9)  
TGATCACTCC ACTGTTTATA GGGATCCATC (Seq. ID. No. 10)  
AATTTGAGAG AACTTGATGG TAAGTACA (Seq. ID. No. 11)  
GTATCTATAT TCATCATAGG AAACACCATT (Seq. ID. No. 12)  
CCAGACTTCA CTTCTAATGA TGATTATGGG (Seq. ID. No. 13)  
ACATTTTCCTT TCAGGGTGTC TGACTAA (Seq. ID. No. 14)  
TTGTGGATCA AATTTCAAGTT GACTTGTCAT C (Seq. ID. No. 15)

14. A set of primers comprising the following diagnostic primer and amplification primer sequences:

GTATCTATAT TCATCATAGG AAACACCACA (Seq. ID. No. 16)  
GACTTCACTT CTAATGATGA TTATGGGAGA (Seq. ID. No. 17)  
TGCCATGGGG CCTGTGCAAG GAAGTATTGA (Seq. ID. No. 18)  
AGCCTATGCC TAGATAAATC GCGATAGACT (Seq. ID. No. 19)  
GTTTCACATA GTGTATGACC CTCTATATAC ACTCATT (Seq. ID. No. 20)  
CCTATGCACT AATCAAAGGA ATCATCCTGT (Seq. ID. No. 21)  
TTTGTTTATT GCTCCAAGAG AGTCATACCA (Seq. ID. No. 22)  
GCTAAAGAAA TTCTTGCTCG TTGTT (Seq. ID. No. 23)  
GACTGACTGA CTGACTGACT CTGACTGACT TATTCA (Seq. ID. No. 24)



patentability. Applicants' amendments are limited to adding sequence identification numbers to all primers identified in the specification as well as those that are claimed.

If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

By:

  
Eyal H. Barash

Reg. No. 43,483

Dated: May 8, 2000

MAY 08 '00 14:50 FR FINNEGAN HENDERSON 202 408 4400 TO 7033088724 P.12